

وزارق التعليم Ministry of Education





AL NOOR INTERNATIONAL SCHOOL Riyadh, Saudi Arabia



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Name: _____

Date: _____

Lesson 1: Describing and Classifying Matter (use with pages 4 – 13)

Fill in the blank to complete each statement.

- 1. _____is anything that has a mass and takes up space.
- 2. _____ are made up of only one type of atom, such as aluminum, gold, or copper.
- 3. ______ are molecules that contain more than one element chemically combined in a set ratio.
- 4. _____can be observed without changing the matter into another type of matter.
- 5. ______ are characteristics that describe something's ability to become something

else.



Explain: Write your answer on the space provided.

Chiara knows that weight is affected by gravitational pull. She is putting together a poster to display in her classroom.

Since the moon's gravity is less than Earth's, all objects, including mammals, have different weights on the moon than on Earth. Use the table below to calculate how much a dog weighs on the moon.

Weights on Earth and the Moon				
Mammals Weight on Earth Weight on				
human being	120 lbs	20 lbs		
tiger	660 lbs	110 lbs		
dog	150 lbs	?		



Classification:

Oliver's science project consists of six sealed and labeled containers. He challenges his classmates to identify pure substances versus mixtures.

Identify each substance as a pure substance or mixture.

Δir	Smoa	Oxvaen	Sugar	Coffee	Chocolate milk
All	Sinoy	Oxygen	Suyur	COJJEE	Chocolate milk

Pure Substances	Mixtures

B. The difference between a physical change and a chemiphysical changes or chemical changes.

Classify the following items into Physical changes and Chemical Changes

ructing motal	hoiling water	hroakina ico	carvina a woodon statuo
rusting metur	Donnig water	DIEUKING ILE	
	2	5	

baking a cake

Physical Changes	Chemical Changes.

Name:	Date:	Chapter 1
Lesson 2: Measuring Matter (use with	pages 14 – 22)	
Match each term in the left colun	nn with its description in the right column.	
Mass •	• amount of space that matter occupie	s.
Volume •	• measured in grams per cubic centime	eter (g/cm³)
Density •	• measure of mass of a material in a gi	ven volume
	• measured in grams (g)	
	 measured in cubic centimeters (cm³) 	
57	 amount of matter in an object 	
Modified True or False: If the state the underlined word or words to r	ement is true, write true. If the statement is fal nake the statement true.	se, change
1. The weigh	<u>nt</u> of an object is constant even if the force of gr	avity changes.
2. The force of	of weight depends on the mass of the planet it's	on.
3. The gradue	ated cylinder is used to measure the mass .	
4. The SI unit	t of volume is <u>cm³</u> or ml.	
Explain: Write your answer on a	the space provided.	
 Why might scientists measure th of an object? 	ne mass of an object rather than the weight	
	My WEIGHT on Earth is around 560N	My WEIGHT on the moon is around 90N

Answer the following questions.



Name:	Date: Chapter 1
Lesson 3: Changes in Matter (use with	pages 24 – 32)
<u>Circle the letter of the correct answ</u>	<u>ver.</u>
1. Which of the following is true a	bout chemical reactions?
a. They are accompanied by ch	anges in energy.
b. They form new substances w	ith new properties.
c. both A and B	
d. neither A nor B	
2. In an endothermic reaction, energ	/ is
a. absorbed	c. converted to mass
b. released	d. synthesized
3. Which of the following is NOT a ph	ysical property?
a. melting point	c. density
b. state of matter	d. flammability
4. Substances formed as a result of a	chemical reaction are called
a. catalysts	c. products
b. precipitates	d. reactants
If the statement is true, write true. If or words to make the statement true	<u>the statement is false, change the underlined word</u> <u>2.</u>
1. In a rea 2. Wa 3. Sub <u>pro</u> 4. The pro 5. And 6. In a	in exothermic reaction, products have <u>more</u> energy than ctants. ter boils at 100°C. This is an example of a <u>chemical</u> property. Instances that enter into a chemical reaction are called <u>ducts</u> . The ability to react with oxygen is an example of a <u>chemical</u> operty. Ther name for a chemical change is a chemical <u>bond</u> .
sub rem	stance may be altered and the chemical composition a ains the same .



<u>Understanding Main Ideas. Complete the following table. Describe changes in properties that</u> you might notice during each process and state whether the changes are chemical or physical.

Changes in Matter				
Event	Observable Changes	Type of Change		
Baking a cake	1.	2.		
Burning a log	3.	4.		
Freezing water	5.	6.		



Answer the given question below.

1. When silver coins are found in ancient shipwrecks, they are coated with a black crust. Ask a question that could help you determine whether the silver underwent a chemical change or a physical change. Explain



Name	Date:	Chapter 2
Lesson	1: states of matter (46-55)	
	Fill in the blank to complete each statement.	
	1. The amount of space that matter fills is its	
2	. A state of matter with a definite volume, but no definite shape is a(n)	
3	. A(n) will always take the shape and volume of its containe	er.
4	. The is a measure of the average speed of the particles in a substance.	7
5	. A(n) has a definite volume but no shape of its own.	
	. The of a gas is the force of its outward push divided by the area of the walls of its container. Modified True or False: If the statement is true, write true. If the statement is false, o derlined word or words to make the	:hange the
	1. <u>Viscosity</u> is the inward force among the molecules of a lid	quid.
_	2. A(n) <u>amorphous</u> solid has a definite melting point.	
_	3. Both gases and liquids are <u>fluids</u> .	
-	4. <u>All solids</u> have a closely packed, fixed arrangement of pa	rticles.
	AMORPHOUS STRUCTURE	

I	I	Ĭ
-		
6-		
I		
-		



Crystalline Solid

Amorphous Solid

1. What are the general characteristics of a solid?

Answer the following questions.

2. How do crystalline solids differ from amorphous solids?

3. How are liquids described in terms of shape and volume?

4. Explain why a sewing needle can float on the surface of water in a glass.

5. What determines the shape and volume of a gas inside a container?

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Name:	Name:		Chapter 2
Lesson 2: Changes	Of State (use with pages 56	- 64)	
Fill in the blan	k to complete each stateme	ent.	
a. The temperc	iture at which a solid change	e to a liquid is called its	·
b. Vaporizatior	n that takes place both abov	e and below the surface is called _	
c. When a liqu	id freezes into a solid, the po	articles of the substance	energy.
d. When the t gas	emperature of a gas decrec	ises, and volume is held constant,	the pressure of the
ee <u>Modified True o</u> <u>underlined wor</u>	nergy is energy of motion, and or False: If the statement is ad or words to make the state 1 Temperature is a r	energy is energy that i <u>true, write true. If the statement</u> <u>tement true.</u> neasure of the average kinetic energy	s stored. <u>is false, change the</u> eray of the particles
in an object or su	bstance.	neusure of the uverage kinetic ene	ingy of the purcles
	2 When the thermal e	energy i <u>ncreases</u> and its particles r	move <u>slower.</u>
	3. The change in state	e from a solid to a liquid is called <u>f</u>	reezing.
	4. All substances free	eze at <u>0°C.</u>	
	5. The change in stat	te from a liquid to a gas is called <u>v</u>	aporization
	6. The freezing poi n	t of water is <u>100°C</u> at sea level.	
	7. As the water is he	eated on the stove, the pressure in	side of the liquid
decreases.			
	8. Condensation is t	the change in state from a gas to c	a liquid.
	9. <u>Melting</u> is the ch	ange of a solid into gas.	
	lation	Gas Con Bollin	



Shade the correct word to complete the given sentences below.





Use the graph below to answer the following questions.

a. Does this graph represent a directly or inversely proportional relationship?

b. Explain what this means for the relationship between pressure and volume.



Name	e:	Date:	Chapter 2
Lessor	3: Gas Behavior (use with pages 66 – 75)		
	Fill in the blank to complete each statement.		
	1. When the graph relating two variables is a stru-	aight line passing through the origin,	the
	2. According to law,	when the pressure of a gas at constar	nt
	3. According to law,	is decreases. when the temperature of a gas is incr	eased
	at constant pressure, its volume increases. 4. When the product of two variables is constant	, the variables are	
	<u>Modified True or False: If the statement is true,</u> underlined word or words to make the stateme	ch other. <u>write true. If the statement is false,</u> nt true.	<u>change the</u>
	1. If the temperature of increased, the volue	of a gas is constant, when the pressur ne decreases .	e is
-	2. If the air pressure in temperature of the	nside an inner tube is constant, when a air is increased, the volume <u>decrease</u>	the : <u>s</u> .
	3. The graph of the reaction o	ationship between the volume of a go ure and its pressure is a(n) <u>line</u>.	as at
-	4. If the temperature of decreased, its press	of a gas inside a sealed, rigid containe ure <u>decreases</u> .	r is?
-	5. The graph for Charl constant pressure i	es's law shows that the volume of a g 's <u>inversely</u> proportional to its temper	as at ature.
-	6. If a gas at constant movable piston is h push the piston out	pressure inside a cylinder topped by neated, the volume of the gas will <u>incr</u> tward.	a r <u>ease</u> and



2. Suppose the gas in Figure 4 (textbook page 27) shown below could be cooled to 100 K (-173°C). Predict the volume of the gas at this temperature.



Name:	Date: 4
Lesson 1: Thern	nal Energy, Heat and Temperature (use with pages 140-147)
Fill in the 1. The tot called	<u>blank to complete each statement.</u> al kinetic and potential energy of all the particles in an object is
2	is the energy that is transferred from a warmer object to a cooler
object. 3 substance.	is a measure of the average kinetic energy of the particles in a
4. At abso completely	lute zero, particles theoretically would have no They would be!
5. A(n)	is an electrical message that travels through the nervous system.
Modified the under	<u>True or False: If the statement is true, write true. If the statement is false, change</u> lined word or words to make the statement true.
	1 . when heat is added to a solid, its particles move <u>faster</u> .
	2. Once the solid gains enough thermal energy, it can change to a <u>frozen</u>
	<i>3.</i> when water vapor begins to cool, The average kinetic energy <u>remains</u>
the same.	4. A greater kinetic energy results in a less thermal energy.
П	

Answer the following questions.

1. Jennifer was heating water on a stovetop to cook pasta. She noticed bubbles of water vapor forming at the bottom of the pot of water as the water was boiling. Explain how this water vapor is formed using the terms thermal energy, temperature, and change of state in your explanation

2. A boy and his younger sister are at the zoo on a hot day. They each buy a cold lemonade. The boy buys a large lemonade and his sister buys a small. They set their cups on a hot table and wait a while before they start drinking. When they finally begin to drink their lemonade, the girl complains that her drink is no longer cold. However, the brother states that his larger drink is still cold. Explain why the boy's drink is still cold, but the girl's drink is not?

	Dete	Chapter 4
Name:	Date:	
Lesson 2: Heat Transfer(use with pages 148	8- 156)	
<u>Circle the letter of the correct and</u>	iswer.	
1. In which substance would heat tran	nsfer by conduction work best?	
a. oxygen	c. water	
b. iron 2. Which is true of a pot and a penny wi t temperatures?	d. alcohol ith equal	
a. they have the same therm	mal energy Convect	ion
b. they are both gaining the	ermal energy	Radiation
c. the penny has more therm	mal energy	
d. the pot has more therma	al energy	b
3. How is heat transferred from the sun	to Earth?	
a. by convection currents	c. by radiation	
b. by conduction	d. by thermal energy	
4. Which temperature is the freezing point of the freezing point o	int of water in the Celsius scale?	
a. 100°	c. 10°	
b. 32°	d. 0°	
Fill in the blank to complete each stater	ment.	
1. The transfer of heat between two su	ubstances that are in direct contact is called	
2 meas	sures the total energy of the particles in a sub	stance.
3. The transfer of heat by the movement	t of a fluid is called	·
4. The average amount of energy of mot	tion of each particle of a substance is called	Radiation
5. Radiation is the direct transfer of ener	rgy by	
6. Only the first few meters of the tropos	sphere are heated by	·
	22	



Identify each example of heat transfer as conduction, convection, or radiation.





		Chapter
Name:	Date:	4
Lesson 3: Heat and Mater	als (use with pages 158 – 165)	
Fill in the blank to	omplete each statement.	
To keep food warm or cool	coolers are made out of materials that	
(1)	The metal in the spoon is an excell	ent (2),
which means that it (3)	heat well. On the oth	er hand, wood is an excellent
(4), w	hich means that it easily (5)	·
Modified True or False the underlined word o	If the statement is true, write true. If the words to make the statement true.	<u>e statement is false, change</u> an <u>Insulator.</u>
2.0	onductors are materials that do not cond	uct heat well.
<u>3.</u> Th material by 1 kelvin is calle	e amount of energy required to raise the t d its specific heat.	emperature of 1 kilogram of a
4.As	matter cools , it usually decreases in volur	ne, or <u>contracts.</u>
5.W	nen matter is <u>heated</u> its particles slow dow	wn and move together.
6.Sc	me objects gain kinetic energy because oj	friction.



Materials used to make spacecraft are chosen based on their properties. These properties include the ability to hold up under extreme temperatures. Look at the table that shows the specific heat of several materials commonly used in spacecraft.

Material	Specific Heat (J/(kg·K))
Beryllium	1830
Inconel	435
Stainless steel	461
Titanium	544

Energy Change = Mass × Specific Heat × Temperature Change

Suppose a space mission is testing samples of the materials listed in the table. The temperature changes are the same for each material tested and the same amount of mass is used for each test.

a-Which type of material will take more energy to raise its temperature.

b- Which type of material will take less energy to raise its temperature.

Nam	ne:	Date://
Lesso	n 1: Energy, Motion,	Forces and Work (use with pages 90- 99)
\bigotimes	Circle the letter of the corr	ect answer.
	1. A push or pull that caus	es an object to move, stop, or change direction.
	a. Force	c. friction
	b. Gravity	d. weight
	2. The ability to do work o	r cause change
	a. Force	c. energy
	b. Motion	d. power
	3. The change in positio	n relative to another object
	a. Force	c. work
	b. Motion	d. power
	4. Work is measured in	
	a. joules	c. watts
	b. newtons	d. watts joules
	Fill in the blank to complet	e each statement.
	1 is the c	ibility to do work or cause change.
	2-An object is in	<i>if its position changes relative to another object.</i>
	3-A is a p	ush or pull.
	4-You do	any time you exert a force on an object that causes the object
	to change its motion i	n the same direction in which you exert the force.

¹ 1-Marissa uses a cart to haul flowers at her job with a landscaper. She pushes a 12kilogram cart a distance of 6 meters with a force of 25 Newtons. How much work does she do?

2-Raul dug a hole in his yard to repair a water pipe. It took him 2 seconds to apply a force of 50 Newtons to push the shovel 0.25 m into the ground. How much power was used?

Name:		Date: _	/	Chapter 3
esson 2: Kinet	ic Energy and Po	tential (use with page 100)- 106)	
If the statem or words to r	ent is true, write true. I make the statement tru	If the statement is false e.	, change	the underlined word
	1. 7	he faster an object mov	es, the m	ore kinetic energy it
has.	2. Kir	netic energy is stored en	ergy.	
~ 	3. G and mass of 4. Er	ravitational potential en the object. nergy can be destroyed.	nergy dep	ends on the height
<u>Circle the let</u>	ter of the correct answe	<u>er.</u>		
1. Which	n point has the most pot	ential energy	-	G S
	a. G	c. f		F F
	b. A	d. B		
2. How much	h potential energy is at	the top of a hill on a rol	ller coaste	er ride
	a. 100 %	с. 25%		
	b. 50%	d. 0%		
3 . As a pe	ndulum swings from its	highest to lowest posit	ion, what	t happens to its
kinetic and	l potential energy?			
а	. Both the potential ene	ergy and kinetic energy o	decrease	
b	. The potential energy of	decreases while the kine	tic energy	y increases
C.	. The kinetic energy dec	creases while the potent	ial energy	y increases
d	. Bothe the potential er	nergy and kinetic energy	increase	
4. Energy car	n be or	changed from one type	to anoth	er.
c.	. Destroyed	c. transferred		
d	. created	d. ignored		

If the statement is true, write true. If the statement is false, change the underlined word or words to make the statement true.

 1. The faster an object moves, the less kinetic energy it has.

 2. Kinetic energy increases as mass increases.

 3. Gravitational potential energy depends on the height and

velocity of the object.

_____4. Gravitational potential energy is the energy associated with objects that can be compressed or stretched.



Answer the following questions below.

Calculate the potential energy of a car with a mass of 2,500 kg that is on a hill 100 meters above sea level.

Lilly's cat ran through your yard. The cat has a mass of 5 kg. He is running at a speed of 3 m/s. What is the kinetic energy of the cat as he runs?

Ch	a	pt	e	r	
Ch	a	pt	e	r	

Date: ___/___/____

Name:_____

5.

Lesson 3: Other Forms of Energy (use with pages 108-116)

Circle the letter of the correct answer.

 Andre really likes his new car, and he knows it has a certain amount of mechanical energy. Which types of energy are included in the mechanical energy of the car? Choose the two that apply.

- a. thermal energy from when fuel burns in the engine
- b. electrical energy from the battery
- c. kinetic energy from any movement the car has.
- d. potential energy based on its position
- 2. Lama lives near Miami, Florida. His home receives electricity from the Turkey Point power plant, which uses nuclear energy to provide electricity to homes and businesses. What is used to provide energy in a nuclear power plant?
 - a. chemical reactions c. nuclear fusion reactions
 - b. nuclear fission reactions d. physical changes
- 3. Before Mrs. Haidi decides what to wear for the day, she wants to know what the temperature is going to be. Which type of energy is most closely related to temperature?

	a. chemical	c. electrical	
	b. mechanical	d. thermal	
4.	Electromagnetic radiation doe	es not need a such as air or we	ater, to
1	travel through.		
	a. Medium	c. height	
	b. Nucleus	d. speed	
W	hen you put gas in a car, what ty a. electrical> heat	<pre>pe of energy transformation is taking place? c. electrical> mechanical</pre>	
	b. chemical> mechani	ical d. chemical> electrical	

	1. Mechanical energy is a type of potential energy sto
in the nucleus. It can be	released through a nuclear reaction.
	2. In fission, small nuclei combine to form larger nucle 3. In fission, a nucleus splits into smaller fragments
	4. The total potential and kinetic energy of particles in
object is called Nuclear e	energy.
	5.Heat flows from a cooler object to a hotter one.
	6. Photosynthesis in plants is considered a nuclear ene
	7. Electromagnetic radiation is a form of kinetic energy
Understanding Main Id Mr. Tracy drove to the nu	leas. Fill in the blank to complete each statement. rserv to buy plants for his aarden. His trip involved several
Understanding Main Id Mr. Tracy drove to the nu	deas. Fill in the blank to complete each statement. rsery to buy plants for his garden. His trip involved several
Understanding Main Id Mr. Tracy drove to the nul examples of chemical ene	<u>deas. Fill in the blank to complete each statement.</u> rsery to buy plants for his garden. His trip involved several rgy. The chemical energy contained in chan
Understanding Main Id Mr. Tracy drove to the nu examples of chemical ene into energy to run the car	<u>deas. Fill in the blank to complete each statement.</u> rsery to buy plants for his garden. His trip involved several rgy. The chemical energy contained in chan . The plants store chemical energy produced
Understanding Main Id Mr. Tracy drove to the nu examples of chemical ene into energy to run the car	<u>deas. Fill in the blank to complete each statement.</u> rsery to buy plants for his garden. His trip involved several rgy. The chemical energy contained in chan . The plants store chemical energy produced Mr. Tracy had the energy to pick up the plants ar
Understanding Main Id Mr. Tracy drove to the nu examples of chemical ene into energy to run the car during carry them to the car beco	teas. Fill in the blank to complete each statement. rsery to buy plants for his garden. His trip involved several rgy. The chemical energy contained in chan . The plants store chemical energy produced Mr. Tracy had the energy to pick up the plants ar ause of the chemical energy stored
⁷ <u>Understanding Main Io</u> Mr. Tracy drove to the nu- examples of chemical ene into energy to run the car during carry them to the car beco	<u>deas. Fill in the blank to complete each statement.</u> rsery to buy plants for his garden. His trip involved several rgy. The chemical energy contained in chan . The plants store chemical energy produced Mr. Tracy had the energy to pick up the plants ar puse of the chemical energy stored
⁷ <u>Understanding Main Id</u> Mr. Tracy drove to the nu- examples of chemical ene into energy to run the car during carry them to the car beco in	to form a larger more stable nucleus.

Name:

Date: ___/___/____

Chapter 3

Lesson 4: Energy Change and Conservation (use with pages 118-125)

If the statement is true, write true. If the statement is false, change the underlined word or words to make the statement true.

______1. In a closed system, the total amount of energy is limited. _______2. During energy transfer, the total amount of energy stays the same. _______3. When a pendulum is at the bottom of its swing, is kinetic energy at its maximum amount. _______4. When a pendulum is at the bottom of its swing, is potential energy at its maximum amount. ______5. When a pendulum is at the top of its swing, is kinetic energy at its minimum amount.

Understanding Main Ideas. Fill in the blanks to complete each statement.

Your body transforms chemical energy stored in cells into the ------ that moves your mouth your digestive system uses ------ and ------ to digest the bread. Sunlight, which is a form of ______.



Answer the following questions below.

1. What is the law of conservation of energy?

2- Determine whether the following are energy transfer or energy transformation.

- a._____ A battery-powered alarm clock rings because a bell hammer hits the bells of the alarm clock. Is this an example of an energy transfer or energy transformation?_____
- b._____ A ball drops off of a table and into a cup. Is this an energy transfer or energy transformation?_____
- c. _____ A rotating wheel knocks over a cup. Is this an example of an energy transfer or an energy transformation?
- d._____ A ball is in a cup, and when the cup is knocked over, the ball rolls out. Is this an example of energy transfer or energy transformation?
- e._____ A ball falls downward into a bucket and makes a sound. Is this an example of energy transfer or energy transformation?_____

Chapte	r
6	

Name:	•
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Date: ___/___/__

Lesson 1: Matter and energy in earth's System (use with pages 178-184)



Circle the letter of the correct answer.

1. Sam read that all subsystems interact with each other. Which example shows how changes in the cryosphere can affect the geosphere?

- a. Land that gains weight can rise slowly.
- b. Land that loses weight can rise slowly.
- c. Land that gains weight will have less mass.
- d. Land that loses weight can sink slowly.
- 2. Fatima drew a diagram of the water cycle to share with her class. She wanted to be able to explain the source of energy for the water cycle, so she looked it up in an encyclopedia. What provides the energy that drives the water cycle?
 - a. heat sources at the center of Earth
 - b. evaporation and condensation
 - c. heat of the sun
 - d. biosphere



Marc was looking at this picture of two boats sitting differently in the water. He decided to compare the way the two boats sit in the water to the way land is behaving in Greenland. Explain how what is happening in Greenland is similar to the ways the two boats are sitting in the water.





Use the information below to answer questions 3 and 4. collection of subsystems.

Use the words from the word bank and the graphic organizer to match the characteristics

with the subsystems they describe.

contains solid inner metal core, liquid outer core, and rocky mantle and crust •

holds all of Earth water • contains all living things on Earth • rocks and metals •

cryosphere • *thin envelope of gases that contains the weather*

biosphere	hydrosphere	geosphere	atmosphere

Name:	Date:// Chapter 5
Lesson 3: The Hydrosphe	re (use with pages 198-196)
Fill in the blank to complete 1. In the water cycle, clouds. 2. Water returns to the atmost 3. Water vapor in the atmost 4. Cool air can hold 5. At 10°C, 1 cubic meter of a the relative humidity would Match each term with its de column on the line beside th 1. condensation 2. evaporation 3. humidity 4. psychrometer	each statement. in the form of rain or snow falls from the sphere as vapor by the process of
5. relative humidity	air to the maximum amount of water vapor the air can hold at a particular temperature
	e. the process by which molecules of liquid water escape into the air after becoming water vapor
The water cycle Condensation Transpiration Evaporation Precipitation	Image: Constraint of the second se

Answer the given question below.

1. Suppose a sample of air can hold at most 10 grams of water vapor. If the sample actually has 2 grams of water vapor, what is its relative humidity?





Sophia was fascinated while studying the role of oceans in the

hydrosphere. She decided to illustrate the features of the ocean floor on a poster for her part in a group project. Identify and describe the kinds of features found on the ocean floor.

Name: _

Lesson 1: The Atmosphere Around You (use with pages 222-)



Circle the letter of the correct answer.

1- He knows what causes the local winds, but he decides to investigate global winds. What is the cause of global winds?

a. movement of air from areas of low pressure to areas of high pressure

- b. conduction currents caused by cool and warm air
- c. radiation currents caused by absorbing the sun's heat
- d. unequal heating of Earth's surfaces over large areas
- 2- Lia lives in the mountains of Colorado. Her aunt came to visit and had difficulty breathing

for a few days until she adjusted to the higher altitude. Which explanation best describes the reason for this difficulty?

- a. Decreased air pressure causes the density of air to increase at higher altitudes.
- b. Decreased air pressure causes the density of air to decrease at higher altitudes.
- c. Increased air pressure causes the density of air to increase at higher altitudes.
- d. Increased air pressure causes the density of air to decrease at higher altitudes.-

3- Which layer of the atmosphere has no definite outer limit?

- 6. Thermosphere c. Mesosphere
- 7. Stratosphere

Date: / /

d. Troposphere

c. Mesosphere

d. Thermosphere

c. Thermosphere

d. Troposphere

c. Exosphere

- Which layer is just above the stratosphere? 4
 - a. Troposphere
 - b. Exosphere
- 5- In which layer does Earth's weather occur?
 - c. Mesosphere
 - d. Stratosphere
- 6- In which layer can air temperatures reach 1,800°C?
 - a. Mesosphere
 - b. Thermosphere d. Stratosphere

EARTH'S ATMOSPHERE



words to make	e the statement true.
	1. The troposphere is thickest over the <u>equator</u> .
	2. Water forms thin, feathery clouds of ice at the top of the <u>exosphere</u> .
	3. The upper stratosphere is <u>cooler</u> than the lower stratosphe
	4. The <u>mesosphere</u> contains the ozone layer.
	5. The <i>ionosphere</i> is the lower layer of the thermosphere.
	6. Most meteoroids burn up in the <u>ionosphere</u> . 7 Air pressure is the result of the <u>weight</u> of a column of air pushing on an area.
	8. The level of mercury in a barometer falls as the air pressufalls.
Understandin	g Main Ideas. Fill in the blank to complete each statement.
1. The middle l	layer of Earth's atmosphere is the
 The middle l The upper retine the The exosphe 	layer of Earth's atmosphere is the egion of the stratosphere is warm because energy from the sun is absorbed by ere is the outer layer of the
 The middle I The upper retine the The exosphe The 	layer of Earth's atmosphere is the egion of the stratosphere is warm because energy from the sun is absorbed by re is the outer layer of the contains almost all the mass of the atmosphere.
 The middle I The upper retrieved the The exosphe The The The 	layer of Earth's atmosphere is the egion of the stratosphere is warm because energy from the sun is absorbed by re is the outer layer of the contains almost all the mass of the atmosphere. is thicker over the equator than over the poles.
 The middle I The upper retine The exosphe The exosphe The The The The lower lage 	layer of Earth's atmosphere is the egion of the stratosphere is warm because energy from the sun is absorbed by re is the outer layer of the re is the outer layer of the yer of the thermosphere is the
 The middle I The upper retine The exosphe The exosphe The The The lower Iag Air pressure 	layer of Earth's atmosphere is the egion of the stratosphere is warm because energy from the sun is absorbed by re is the outer layer of the re is the outer layer of the contains almost all the mass of the atmosphere is thicker over the equator than over the poles. yer of the thermosphere is the at sea level is
 The middle I The upper retrieved the The exosphe The exosphe The The The lower lay Air pressure mountain. 	layer of Earth's atmosphere is the egion of the stratosphere is warm because energy from the sun is absorbed by re is the outer layer of the re is the outer layer of the contains almost all the mass of the atmosphere contains almost all the mass of the atmosphere is thicker over the equator than over the poles. yer of the thermosphere is the at sea level is

Chapter 6

Name:

Date: ___/___/____

_.....

Lesson 2: Water in the Atmosphere (use with pages 230-238)

Colin watched the weather report on television. He saw the forecast for the coming week.

Day of the week	Sun	Mon	Tues	Weds	Thur	Fri	Sat
High temp. (°C/°F)	30/86	27.2/81	30/80	25.6/78	25.6/78	27.2/81	29.4/85
Forecast	Sunny	Partly cloudy	Cloudy	Rain	Fog	Partly cloudy	Sunny
Relative humidity	29%	40%	90%	100%	100%	70%	30%



Circle the letter of the correct answer.

1. Colin knows that the water cycle follows certain steps in a repeating cycle. When the sun heats water molecules, they increase speed and collide. On Sunday he noticed that a puddle on the sidewalk was getting smaller over time. Which step in the water cycle would Colin predict is occurring?

A. precipitation	C. condensation
B. evaporation	D. crystallization

2. The meteorologist talked about how humidity affects weather and then predicted the humidity for the next week. Knowing that the amount of humidity would affect the coming weather, what does the amount of humidity on Tuesday indicate?

A. low level of air pressure on that day. C low level of water vapor in the air on that day.

B. high level of air pressure on that day. D. high level of water vapor in the air on that day.

3. What is the dew point?

a. the temperature at which condensation begins
b. the temperature at which frost turns to dew
b. the temperature present when a storm
begins

40



Choose the correct word from the word bank to correctly label each part of the water cycle in the image below.

 $condensation \bullet respiration \bullet runoff \bullet evaporation \bullet precipitation$



Nam	ne:	Date://	Chapter 6		
Lesso	on 3: Air Masses (use with pages 438-445)				
	<u>Circle the letter of the correct answer.</u>				
	1. Maritime polar air masses are	2			
	a. cold and dry	c. warm and dry			
	b. cold and moist	d. warm and moist			
	2. A stalled front that may bring many days o	f clouds and precipitation is a(n)	·		
	a. cold front	c. stationary front			
	b. occluded front	d. warm front			
	3. An air mass that forms over Arizona and New Mexico will be a				
	a. continental polar air mass	c. maritime polar air mass			
	b. continental tropical air mass	d. maritime tropical air mass			
	4. Bands of high-speed winds about 10 kilome	ters above Earth's surface are			
	called				
	a. air masses	c. fronts			
	b. cyclones	d. jet streams	\sim		
X	Fill in the blank to complete each statement.	Cold Air →	Warm Air		
	 A large body of air that has similar temperate height is called a(n) 	ure, humidity, and air pressure at a g	given		
	2. Air masses that form over oceans are called _	air n	nasses.		
	3. The boundary where air masses meet is a(n)	·			
	4. A(n) front oc a slower-moving cold air mass.	ccurs when a fast-moving warm air i	mass overtakes		
	5. A swirling center of low air pressure is called	a(n)			
	6are high-pres	ssure centers of dry air.			



Understanding Main Ideas. Fill in the blanks in the table below.

Type of Air Mass	Where It Forms	Temperature	Humidity
1.	Over ocean	Warm	Moist
Maritime polar	2.	Cold	Moist
Continental tropical	Over land	3.	Dry
Continental polar	Over land	Cold	4.



Answer the given question below.

1. What kind of weather is associated with a cyclone? What kind of weather is associated with an anticyclone?



Name:	Date:	_/	_/	Chapter 6
Lesson 4: Predicting Weather Changes (u	use with pages 248-2	55)		
 Circle the letter of the correct answer. 1- What are the important job duties of a meteorol A. collect and analyze data to make predictions about B. guess what the weather will be and report it on the C. carry out investigations of insects D. use observations and technology to determine how affect weather 	logist? Choose th ut the weather elevision ow global pattern	e two	that apply.	
 2- What are some reasons people need accurate fo A. helps them to prepare for dangerous weather B. helps them to get to school on time C. helps them to harvest their crops at the right time D. helps them to learn to read and understand maps E. helps them to work even during bad weather 	e s	the tw	o that app	ly.
 3- How does the Gulf Stream affect the air masses a A. causes the air masses to become cooler B. causes the air masses to become warmer C. causes the air masses to collide D. causes the air masses to move along the jet strea 	above ocean wat	er?		

 ii carry instruments for collecting weather data high int iii the atmosphere where human observation is not feas iv ocean currents cause the air masses above them to become warmer, which currents the temperature of air masses above them. v orbit high above Earth collecting data as well as images of Earth's suratmosphere. If the statement is true, write true. If the statement is false, change the underlined word or words to make the statement true. 1. Good forecasters could be one hundred percent accurate predicting the weather.
iii the atmosphere where human observation is not feas iv ocean currents cause the air masses above them to become warmer, which currents the temperature of air masses above them. vorbit high above Earth collecting data as well as images of Earth's suratmosphere. If the statement is true, write true. If the statement is false, change the underlined word or words to make the statement true. 1. Good forecasters could be one hundred percent accurate predicting the weather.
<pre>iv ocean currents cause the air masses above them to become warmer, white currents the temperature of air masses above them. vorbit high above Earth collecting data as well as images of Earth's suratmosphereorbit high above I f the statement is false, change the underlined word or words to make the statement true1. Good forecasters could be one hundred percent accurate predicting the weather.</pre>
vorbit high above Earth collecting data as well as images of Earth's su atmosphere. If the statement is true, write true. If the statement is false, change the underlined word or words to make the statement true. 1. Good forecasters could be one hundred percent accurat predicting the weather.
_If the statement is true, write true. If the statement is false, change the underlined word or words to make the statement true. 1. Good forecasters could be one hundred percent accurat predicting the weather.
3. A thermometer measures an pressure.
sunny weather.
4. When you see thin, high clouds in the sky, a warm front approaching.

Nam	ne:	Date:	Chapter 10			
Lesso	on 1: living Things	,				
\bigotimes	<u>Fill in the blank to con</u>	n <mark>plete each statement.</mark> re made of	All organisms contain similar			
	u. An organishis u	and use	. All organisms respond			
	to their	All organisms _	, develop,			
	and					
	b. Organisms consist	ting of one cell are called	while			
	organisms consisting of many cells are					
	c. Any change or signal in the environment that can make an organism react in some					
	way is called aAn organism reacts to a stimulus with a					
		an action or a change	in behavior.			
×	<u>Match each term with</u> right column on the li	n its definition by writing the le ne beside the term in the left co	<u>tter of the correct definition in the</u> olumn.			
	1. Cell	a. a change in an organism's	s environment			
	2. characteristic	b. a feature or quality that h	elps you identify something			
	3. development	c. ability to maintain certain	internal conditions			
	4. homeostasis	d. changes that occur within	an organism during its lifetime			
	5. stimulus	e. made of one cell				
	6. unicellular	f. the smallest unit of life				

If the statement is true, write true. If the statement is false, change the underlined word or words to make the statement true.

- _____1. Heterotrophs get energy from the Sun to make their own food.
 _____2. Proteins and lipids are chemicals that provide the cell with energy
 _____3.Sexual reproduction involves only one parent.
 - _____4. Birds, mammals, and most plants reproduce asexually.
 - _____5.Bacteria, the most numerous organisms on Earth, are multicellular

organisms.

_6.An organism reacts to a stimulus with a response.

1. List the six characteristics that all living things share.

- 2. <u>Identify the characteristic of living things that is being described in each statement</u> <u>below.</u>
- a. A baby songbird hatches from its egg with both parents watching.
- b. A caterpillar hibernates in a cocoon and emerges as a butterfly.
- c. A sea worm drops its tail, and the tail becomes a new worm.

Name:	Date:/ Chapter 10
Lesson 2: Classification S	System (use with pages 450- 458)
Match each term with its c column on the line beside t	definition by writing the letter of the correct definition in the right the term in the left column.
binomial nomenclature	a. organisms made up of cells that lack a cell nucleus
classification	b. the broadest level of organization
domain genus	<i>c.</i> the final classification stage in which members are very similar.
prokaryotes	d. the process of grouping things based on their similarities
species	e. the scientific study of how organisms are classified
taxonomy	<i>f.</i> the system in which each organism is given a unique two-part scientific name



2.. If the statement is true, write true. If the statement is false, change the underlined word or words to make the statement true.

______1. A species is a group of similar organisms that can mate with each other and produce offspring that can also mate and reproduce.

_____2. In Linnaean Naming System, the first word is the organism's genus and the

second word is the species.

_____3. Bacteria have nuclei containing DNA.

____4. Eukarya and Archaea have only one cell and no nucleus,

3. Number the following classification groups from the largest to the smallest

(the largest group will be Number 1).

 \mathbf{X}

Class	Kingdom
Domain	Order
Family	Phylum
Genus	Species

Date: ___/___/

Bacteria. Protists. and Fungi(use with pages) Match each term with its definition by writing the letter of the correct definition in the right column on the line beside the term in the left column. a-A substance that consists of pathogens, such as viruses, that bacteria have been weakened or killed but can still trigger the body to produce chemicals that destroy the pathogens. _conjugation b-A tiny, nonliving particle that enters & reproduces inside a living cell. _decomposers c-An organism that provides a source of energy or a suitable environment for a virus to live host d-Exchange of genetic material through cell-to-cell contact. ribosomes e-Organisms that break down wastes & other dead organisms into smaller molecules. vaccine *f*-Round structures in cells where proteins are made. virus g-Single-celled organisms, also known as prokaryotes, that lack a nucleus.

If the statement is true, write true. If the statement is false, change the underlined word or words to make the statement true.

 1. organisms in Domains Archaea and Bacteria are more complex than protists.

 2. Many archaea can't live in extreme conditions

 3. Bacteria can be heterotrophs or autotrophs.

 4. A vaccine is a tiny, nonliving particle that enters and then reproduces inside a living cell.

 5.A host is an organism that provides a source of energy or a suitable environment for a virus to live.

Number the steps of the virus' s reproduction.

- _____ The virus either enters the cell or injects its genetic material into the host cell.
- _____ a virus attaches itself to a host cell.
- _____ The host cell bursts open, releasing many new viruses.
- _____ Viruses infect other healthy cells and the process repeats.
- ______ the virus's genetic material takes over and forces the cell to make more copies of the virus.

Name:	Date://	er
Lesson 4: Plants and A	Animals (use with page	
Match each term with right column on the line	n its definition by writing the letter of the correct definition in the ne beside the term in the left column.	<u>he</u>
cell membrane	a -It controls all the activities of the cell as it contains the genetic material.	
cell wall	b -It makes food for the plant.	
chloroplasts	<i>c</i> -It produces energy for the cell.	
cytoplasm	d -It stores excess water, food, and wastes.	
mitochondria	e -It surrounds the organelles and controls the passage of materials in or out of the cell.	
nucleus	f -Jelly like substance that contains the organelles.	
vacuole	g -rigid outer covering that protects the cell and gives it its shape.	
If the statement is true word or words to mal	e, write true. If the statement is false, change the underlined the statement true.	
1.AI	nimals are autotrophs, or producers.	
2. P	lants use photosynthesis to make their own food.	
3. T	he largest structure inside the cell is the nucleus.	
4. Ci sunlight,	hloroplasts contain a green pigment called chlorophyll that absol	rbs
5. St	rem anchor the plant to the ground. scular plants have phloem that transports food to all parts of pla	ınts.
7. xyl	em moves water downward to the roots.	
8. No l for transporting materia	nvascular plant, are high-growing plants that lack vascular tissue ls.	е



Circle the letter of the correct answer.

1. Animals with a backbone are called

- a. Vertebrates
- b. invertebrates.

2. a body structure composed of different kinds of tissues that work together.

- a. system
- b. organ

3. animals without symmetry such as sea sponge are ;

- a. radial symmetry
- b. bilateral symmetry
- c. asymmetrical

4. Most animals are:

- a. Vertebrates
- b. invertebrates.

5._____ are animals that their body temperature changes with the environment

Vertebrates

invertebrates.

6. A______ whose body temperature is regulated by its internal heat, and has glands that produce milk

- a. Vertebrates
- b. invertebrates.

			Chapter
Name:		Date://	7
Lesson 1: Ear	rth's Interior use with	pages 382-387)	
<u>Circle the</u>	letter of the correct answ	wer.	
Which of a of Earth's cr	these are examples of ev rust are like? Choose the	vidence that scientists use to discover t two that apply.	what the layers
	a. fossils		
	b. X-rays		
	c. seismic waves		
	d. samples of rock	ha curfaca	
	e. digging below ti	ie suljuce	
Volcanoes e	extend so deep below Ear	rth's surface that they reach down to a	the
next layer.	Which is the second lay	er of Earth?	
	a. crust		
	b. inner core		
	c. mantle		
	d. outer core		
. Which part	t of Earth is responsible f	for creating its magnetic field?	
	a. crust		
	b. inner core		
	c. mantle		
	d. outer core		
Which of th	e following can occur aft	ter a rock is weathered?	
a. It form	ns metamorphic rock.		
b. It melt	ts and forms igneous rock	κ.	
c. The se	diment can form magma	1.	
d. It get	s compacted and forms s	edimentary rock.	
Which proce	ess is responsible for cau	sing this column of rock to form?	
	a crystallization	,	
	b deposition		
	c sedimentation	n	
	d. weathering		

Words to Know: Write the word next to the description it matches.

inner coreouter corecrustmantle,The _______ is a layer of solid rock that includes both dry land and the ocean floor.The _______ a layer of hot rock.The _______ is a layer of molten metal surrounding the inner core.The _______ is a dense ball of solid metal.

Sam is not sure what the difference is between the inner core and the outer core. Read each word or phrase that describes the inner or outer core of Earth, and then use the graphic organizer to place each word or phrase in the correct column.

solid • liquid • hottest layer • under the most pressure • causes the

Inner Core Outer Core

magnetic field

In Journey to the Center of the Earth, by Jules Verne, an adventurer travels through the layers of Earth until he reaches the center. While it is not possible to actually travel through all of the layers of Earth, in what order would the adventurer have traveled to reach the center? Number the layers listed below in the correct order.

_____ outer core

_____ mantle

_____ inner core

_____ crust

Name:	Date://
Lesson 2: Minera	s (use with pages)
1- Which proce	ess is responsible for causing this column of rock to form?
	a. crystallization
	b. deposition
	c. sedimentation
	d. weathering
2- What determin	nes crystal size in minerals formed by lava or magma?
	e. the kind of mineral that formed
j	f. the amount of material available
	g. the rate at which the minerals cooled
	h. the materials in the lava or magma
3. What causes th	he differences in the way diamonds form compared to graphite?
	a. high temperature and high pressure
	b. low temperature and location deep in the mantle
	c. high pressure and location in the continental crust
	d. low temperature and low pressure



Fill in the blank to complete each statement.

harder • heavier • cleavable • softer

Any mineral can scratch any mineral ______ than itself, and it can be scratched by any mineral that is ______.



Susanna was hiking in the mountains, and she discovered an interesting shiny object. She wondered if this object was actually a rock or if it might be a mineral. As she observed it more closely, she noted that it was solid and naturally occurring, with a definite chemical composition. The object did not appear to have a crystal structure.

Could Susanna have found a mineral? Explain why or why not.

Lesson 5 : KOCKS(use with page		
	j	
<u>Circle the letter of the correct answer.</u>		
1. Marcie found a rock formed by volcanic processes. Wh	at type of	
rock would it be?		
 A. igneous B. metamorphic C. mineral D. sedimentary 		
2. Marcie believes that she has found a piece of obsidian. W	/hat	
causes obsidian to form?		
 A. extremely hot rock that cools quickly B. remains of plants and animals compacted C. pressure deep beneath the surface of Earth D. particles of rocks pressed and cemented together 		
3. Which of these statements describes the gypsum rock th	at is	
rated a 2 on Moh's hardness scale? Choose the two that apply.		
 A. It cannot scratch any other rocks. B. It can scratch rocks that are rated a 1. C. It is very soft compared to other rocks. D. It is very hard compared to other rocks. E. It can scratch any rock rated from a 2 to a 10, but not a 1. 		
Match each term with its definition by writing the letter of the corre right column on the line beside the term in the left column.	ct definition in the	
Igneous formed from cooled magma or lava		
Metamorphic formed from small particles of rocks or other materials cemented together Sedimentary formed when rock is changed from heat or pressure deep below Earth's		

58

Reese collects rocks with his brother every time they go hiking. He has a decent collection, but he is always on the lookout for a new kind to identify and include. He knows rocks contain at least one mineral and often several kinds of minerals. Explain how geologists describe rocks. Include at least three different characteristics, and explain how these characteristics are used to describe rocks.



Name:

Date:	/	_/
-------	---	----

Lesson 4 : Cycling of Rocks(use with pages)

<u>1.Match each term with its definition by writing the letter of the correct definition in the right column on the line beside the term in the left column.</u>

1. food	a. the source of igneous rocks.
2	b. the source of the energy my body needs.
2. process	c. a series of changes that happen over time and lead to an
3. maama	expected result
0g	d. series of processes that occur on Earth's surface and inside
4. Rock cycle	earth that slowly change rocks

2. Use the information below to answer questions 1-3.

Marcie's family takes a trip to the beach. They observe many features along the shoreline, including sea stacks and sea arches. These features are made of granite, a very hard rock. It takes many years and a huge amount of wave energy for a sea arch to fall, forming a sea stack.

Write the letters of the correct answers on the lines at left.

_ 1. Which step of the rock cycle happens as the sea stacks are broken down?

- a. deposition
- b. pressure changes
- c. temperature changes
- d. weathering

_____ **2. Marcie believes that the sea arch was once part of a mountain. Which** sentence explains how the mountain was formed?

- a. Plates moved apart to form it.
- b. Volcanic lava hardened to form it.
- c. Tectonic plates collided to form it.
- d. . Sand was deposited to form it.

_____3. Which processes can cause rocks to change to metamorphic rock? Choose the 2 that apply.

- a. breaking
- b. crushing
- c. deposition
- d. heat
- e. pressure

3. Write an answer for the following question in the space provided.

Marcie finds a rock that looks like a bunch of seashells cemented together.

Explain what type of rock it is and how it was formed.

4. Kat is creating a model to show how plate movements are linked to the formation of new rocks, and she is trying to place the steps in the correct order. Number the steps of her model below in the correct order.

_____ The tectonic plates move apart from one another.

_____ Lava flows onto Earth's surface.

____ Magma forms beneath the plates and rises up through the cracks.

_____ Lava cools and hardens to form igneous rock.

Name	2:e DI	Date:/ 8	er -
Lesson Marig	Extra ence of Plance of Plance atch each term with in ht column on the line c. subduction 3. mid-ocean ridges 4. ocean trenches	 its definition by writing the letter of the correct definition in the left column. a. long, zipper-like chains of undersea mountains b. undersea valleys that are the deepest parts of the ocean c. molten rock flows up through a crack in Earth's crust and hardens into solid strips of new rock on both sides of the croce. e. the sinking movement of ocean floor back into the manual content of the content of	the the ack.
<u>Cir</u> made	<u>cle the letter of the c</u> 1. What was the ? a. All the con years. b. All the con puzzle. c. All the con apart over d. All the con continente	orrect answer. e most complete hypothesis that Alfred Wegener tinents would slowly drift together over millions of tinents would fit together like a giant world jigsaw tinents were once grouped together and had drifted r time. tinents were slowly rotating around the world in al drift.	
	2. Which evident that apply. a. f similar for b. similar coa c. tropical pla d. scientists la e. drilling dee locations	ce supports Wegener's hypothesis? Choose the three ssils in different locations of deposits in different locations ants in locations that are now cold ooking at the animals now living in those locations op beneath Earth's surface to find fossils in other	

3. Why is the Atlantic Ocean growing larger while the Pacific Ocean is growing smaller?

- **a.** It has more mid-ocean ridges than the Pacific Ocean, so that keeps it growing larger.
- **b.** It is building more islands than the Pacific Ocean, so the continents are pushed apart more.
- *c.* It has a spreading mid-ocean, while the Pacific Ocean is subducting faster than the mid-ocean ridges can make new land.

d. It has more subduction areas, whereas the Pacific Ocean has more mid-ocean ridges.

4. How do the pillow-shaped rocks found in the atlantic ridge provide evidence that volcanic activity is taking place?

- **a.** They form only when molten material cools slowly in warm water.
- **b.** They form only along subduction zones in the trenches of the Atlantic.
- *c.* They form only when lava erupts above the water when the air is cool.
- *d.* They form only when molten material hardens quickly in cold water.

Fill in the blank to complete each statement.

Thuy was learning about mid-ocean ridges and how they spread, creating more land.

She wondered why Earth doesn't keep growing bigger and bigger because of the new

land. She learned that the reason Earth isn't expanding is because of the many

_that occur at ocean _____



Katrina wanted to find out more about Wegener's hypothesis because it didn't explain how continental drift took place. Explain how scientists discovered the mechanism for the continents moving.

		Chapter
Name:	Date://	8

Lesson 2: Plate Tectonics and Earth's Surface(use with pages 400-403)

Match each term with its definition by writing the letter of the correct definition in the right column on the line beside the term in the left column.

- _1. Oceanic crust a. less dense than oceanic crust and is almost always thicker
- 2. continental crust b. Plates slip past each other
- ___3. divergent boundary (c. he dense type of crust that is found at the bottom of the ocean
 - *4. convergent boundary d. Plates move apart from each other*
- ___5. transform boundary. *f.* Plates come together

Circle the letter of the correct answer.

1. What information caused the hypothesis of continental drift to

become a theory?

- A. the ocean floor plates appear to be stable and unchanging
- **B.** the lithosphere is broken apart, and these plates have no boundaries
- *C.* explain the movements of plates in the lithosphere and predict what happens when they meet
- **D.** Earth appears to have plates with boundaries that are moving

2. Bree saw a picture of two plates

spreading and wondered what formed in

between the two diverging plates.



- A. transform boundary
- B. ocean trench
- **C.** rift valley
- **D.** subduction zone

3. The ways they interact produce changes on land and on the ocean

floor. What are the kinds of boundaries that plates form? Choose the three

that apply.

- A. deep ocean trench boundary
- **B.** convergent boundary
- **C.** transform boundary
- **D.** divergent boundary
- **E.** tectonic boundary
- **F.** plate boundary



Stephen wanted to make a chart to compare oceanic crust with continental crust. Read each word or phrase that describes either oceanic crust or continental crust, then use the graphic organizer to classify each word or phrase into the correct column.

underwater • less dense • bottom of ocean • thicker • dense • above sea level

Continental Crust	Oceanic Crust



Write an answer for the following question in the space provided.

Explain the different kinds of events that can take place when convergent boundaries meet. Name one example of this from somewhere on Earth.